

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

MA0005	Overall LMA Rating	Total LMA Miles						
Sutter Maintenance Yard Maintenance Area 0005	A	33.32						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.02		0.02	0.06%				
Encroachments	0.08		0.08	0.24%	5.37	0.01		
Animal Control	0.01		0.01	0.03%				
Slope Stability	0.04		0.04	0.12%				
Repair Gates	0.01		0.01	0.03%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.68	0.12		
<i>LMA Totals:</i>	0.16	0.00	0.16	0.48%	6.05	0.13	0.00	0.00
Unit No. 01 Butte Creek 1 LB	Overall Unit Rating	Total Unit Miles						
MA0005	A	15.29						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.07%				
Encroachments	0.03		0.03	0.20%	3.21			
Animal Control	0.01		0.01	0.07%				
Slope Stability	0.02		0.02	0.13%				
Repair Gates	0.01		0.01	0.07%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.32	0.04		
<i>Unit Totals:</i>	0.08	0.00	0.08	0.52%	3.53	0.04	0.00	0.00
Unit No. 02 Butte Creek 1 RB	Overall Unit Rating	Total Unit Miles						
MA0005	A	16.53						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.06%				
Encroachments	0.05		0.05	0.30%	2.16	0.01		
Slope Stability	0.02		0.02	0.12%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.36	0.08		
<i>Unit Totals:</i>	0.08	0.00	0.08	0.48%	2.52	0.09	0.00	0.00
Unit No. 03 Little Chico Creek Diversion 1 LB	Overall Unit Rating	Total Unit Miles						
MA0005	A	1.50						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2013 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway			Bank	Unit Miles
Unit No. 01 Butte Creek 1			Left	15.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/23/2013 - 04/23/2013		11/20/2013 - 11/20/2013	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Jason Cooper Sutter Maintenance Yard		Jason Cooper Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Butte Creek 1						Left	15.29	11/20/2013 11/20/2013	Bob Duffey	
LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	Photo
	Start	End					Start	End		
1			Earthen Levee	Operations & Maintenance Manuals	LS Ma		°	°	11	
DWR ID: DWR_MA0005_01_s_2013_11										
2			Earthen Levee	Emergency Supplies & Equipment	LS Ma		°	°	12	
DWR ID: DWR_MA0005_01_s_2013_12										
3			Earthen Levee	Flood Preparedness & Training	LS Ma		°	°	13	
DWR ID: DWR_MA0005_01_s_2013_13										
4	0.58	0.58	Earthen Levee	Vegetation	LS Ma	V4 : Elderberries are blocking visibility and flood fight capability.	39.690745 ° -121.777342 °	39.690745 ° -121.777342 °	903 Y	
DWR ID: DWR_MA0005_01_s_2012_903										
5	1.62	1.62	Earthen Levee	Slope Stability	LS Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.676129 ° -121.778171 °	39.676129 ° -121.778171 °	16 Y	
DWR ID: DWR_MA0005_01_s_2013_16										
6	1.68	1.68	Earthen Levee	Encroachments	LS Ma	DE : Debris	39.675528 ° -121.778642 °	39.675528 ° -121.778642 °	1 Y	
DWR ID: DWR_MA0005_01_s_2012_1										
7	2.13	2.13	Earthen Levee	Repair Gates	CR Ma	Inspector Comments: No Permit.	39.670112 ° -121.782012 °	39.670112 ° -121.782012 °	10 Y	
DWR ID: DWR_MA0005_01_s_2012_10										
8	2.58	2.58	Earthen Levee	Slope Stability	LS Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.663876 ° -121.784014 °	39.663876 ° -121.784014 °	9 Y	
DWR ID: DWR_MA0005_01_f_2012_9										
9	2.86	2.86	Earthen Levee	Encroachments	LS Ma	PR : Prunings	39.660124 ° -121.785136 °	39.660124 ° -121.785136 °	2 Y	
DWR ID: DWR_MA0005_01_s_2012_2										
10	3.12	3.12	Earthen Levee	Encroachments	LS Ma	PR : Prunings	39.656779 ° -121.787127 °	39.656779 ° -121.787127 °	3 Y	
DWR ID: DWR_MA0005_01_s_2012_3										
11	3.54	3.54	Earthen Levee	Encroachments	LS En	PR : Prunings	39.651070 ° -121.789050 °	39.651070 ° -121.789050 °	17 Y	
DWR ID: DWR_MA0005_01_s_2013_17										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
12	3.67	3.67	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14058 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned. Slide gate open and inoperable. Pipe should be properly abandoned.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal siphon through levee, 10.5 feet below crown. Slide gate in corrugated metal riser on waterward slope. Concrete distribution box on LS toe and concrete overflow and siphon box at edge of berm. (USCE 1958) FS Date: 5/29/2013 1:54:14 PM	39.649522 ° -121.787965 °	39.649522 ° -121.787965 °	4 Y
DWR ID: DWR_MA0005_01_f_2013_4										
13	3.67	3.67	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7521 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned. Slide gate open and inoperable. Pipe should be properly abandoned. FIELD_STRUCT_DESC: 30-inch corrugated metal siphon through levee, 10.5 feet below crown. Slide gate in corrugated metal riser on waterward slope. Concrete distribution box on LS toe and concrete overflow and siphon box at edge of berm. (USCE 1958) FS Date: 10/30/2012	39.649522 ° -121.787965 °	39.649522 ° -121.787965 °	18
DWR ID: DWR_MA0005_01_f_2013_18										
14	3.91	3.91	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.646599 ° -121.785705 °	39.646599 ° -121.785705 °	14 Y
DWR ID: DWR_MA0005_01_f_2012_14										
15	3.94	3.94	Earthen Levee	Slope Stability	LS	C Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.646133 ° -121.785370 °	39.646133 ° -121.785370 °	15
DWR ID: DWR_MA0005_01_f_2013_15										
16	3.97	3.97	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:14061 EP_NO: 6544A Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Pipeline should be marked where pipe crosses levee as it is 4-feet below the surface.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 6-inch concrete encased high pressure steel gas line through the levee, 4.0 feet below the crown. 8-inch diameter PG&E gas access manhole located on south side of road 250-feet east of levee crown. (Permit No. 6544A) FS Date: 5/29/2013 1:56:01 PM	39.645846 ° -121.785155 °	39.645846 ° -121.785155 °	19 Y
DWR ID: DWR_MA0005_01_f_2013_19										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Maintenance Area 0005

DWR ID: DWR_MA0005_01_f_2013_22

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
20	5.65	5.65	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7529 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe 1/2 filled with soil at slide gate end. FIELD_STRUCT_DESC: 1 of 2. 36-inch pipe through levee 11.0 feet below crown. Slide gate in 54-inch corrugated metal riser on waterward slope and concrete "U" headwall on the landward side. (USACE 1957) FS Date: 10/30/2012	39.624559 ° -121.772141 °	39.624559 ° -121.772141 °	23
DWR ID: DWR_MA0005_01_f_2013_23										
21	5.65	5.65	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7528 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe 1/2 filled with soil at slide gate on WS. FIELD_STRUCT_DESC: 2 of 2. 36-inch pipe through levee 11.0 feet below crown. Slide gate in 54-inch corrugated metal riser on waterward slope and concrete "U" headwall on the landward side. (USACE 1957) FS Date: 10/30/2012	39.624559 ° -121.772141 °	39.624559 ° -121.772141 °	24
DWR ID: DWR_MA0005_01_f_2013_24										
22	5.79	6.34	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.622766 ° -121.773159 °	39.615666 ° -121.777353 °	55 Y
DWR ID: DWR_MA0005_01_f_2013_55										
23	7.70	7.70	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7584 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe filled with soil and outlet/appurtenances are buried. FIELD_STRUCT_DESC: 24-inch pipe through levee, 8.5 feet below crown. Flap gate on the waterward end. Concrete "U" shaped headwall on LS toe. (USCE 1952) FS Date: 10/30/2012	39.597725 ° -121.787257 °	39.597725 ° -121.787257 °	25
DWR ID: DWR_MA0005_01_f_2013_25										
24	7.70	7.70	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14079 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe filled with soil and outlet/appurtenances are buried.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch pipe through levee, 8.5 feet below crown. Flap gate on the waterward end. Concrete "U" shaped headwall on LS toe. (USCE 1952) FS Date: 5/29/2013 2:16:09 PM	39.597725 ° -121.787257 °	39.597725 ° -121.787257 °	26 Y
DWR ID: DWR_MA0005_01_f_2013_26										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

25	8.33	8.33	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14081 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe filled with soil.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 9.3 feet below the crown. Flap gate on the waterward end. Concrete headwall at both toes. (USACE 1952) FS Date: 5/29/2013 2:17:09 PM	39.589751 ° -121.792818 °	39.589751 ° -121.792818 °	27 Y
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DWR ID: DWR_MA0005_01_f_2013_27

26	8.33	8.33	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7587 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe filled with soil. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 9.3 feet below the crown. Flap gate on the waterward end. Concrete headwall at both toes. (USACE 1952) FS Date: 10/30/2012	39.589751 ° -121.792818 °	39.589751 ° -121.792818 °	28
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DWR ID: DWR_MA0005_01_f_2013_28

27	9.21	9.21	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14084 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to confirm proper abandonment of pipe. Pipe should be plugged on LS.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 11.5 feet below the crown. Distribution box at the landward toe. (USACE 1955) FS Date: 5/29/2013 2:19:00 PM	39.579908 ° -121.802790 °	39.579908 ° -121.802790 °	29 Y
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DWR ID: DWR_MA0005_01_f_2013_29

28	9.21	9.21	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7590 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to confirm proper abandonment of pipe. Pipe should be plugged on LS. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 11.5 feet below the crown. Distribution box at the landward toe. (USACE 1955) FS Date: 10/30/2012	39.579908 ° -121.802790 °	39.579908 ° -121.802790 °	30
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DWR ID: DWR_MA0005_01_f_2013_30

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
29	9.65	9.65	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7591 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems there should be flap gates on this structure. FIELD_STRUCT_DESC: 1 of 4: 66 Inch Corrugated Metal Pipe through levee, 17.9 feet below the crown. Concrete headwalls on both ends. (USCE 1952). FS Date: 10/30/2012	39.575072 ° -121.807805 °	39.575072 ° -121.807805 °	31
DWR ID: DWR_MA0005_01_f_2013_31										
30	9.65	9.65	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14423 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems there should be flap gates on this structure.5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch. FIELD_STRUCT_DESC: 1 of 4: 66 Inch Corrugated Metal Pipe through levee, 17.9 feet below the crown. Concrete headwalls on both ends. (USCE 1952). FS Date: 5/29/2013	39.575072 ° -121.807805 °	39.575072 ° -121.807805 °	32 Y
DWR ID: DWR_MA0005_01_f_2013_32										
31	9.66	9.66	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14424 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems there should be flap gates on this structure.5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch. FIELD_STRUCT_DESC: 2 of 4: 66 Inch Corrugated Metal Pipe through levee, 17.9 feet below the crown. Concrete headwalls on both ends. (USCE 1952). FS Date: 5/29/2013	39.575036 ° -121.807807 °	39.575036 ° -121.807807 °	33
DWR ID: DWR_MA0005_01_f_2013_33										
32	9.66	9.66	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7592 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems there should be flap gates on this structure. FIELD_STRUCT_DESC: 2 of 4: 66 Inch Corrugated Metal Pipe through levee, 17.9 feet below the crown. Concrete headwalls on both ends. (USCE 1952). FS Date: 10/30/2012	39.575036 ° -121.807807 °	39.575036 ° -121.807807 °	34
DWR ID: DWR_MA0005_01_f_2013_34										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
33	9.66	9.66	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14425 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems there should be flap gates on this structure.5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch. FIELD_STRUCT_DESC: 3 of 4: 66 Inch Corrugated Metal Pipe through levee, 17.9 feet below the crown. Concrete headwalls on both ends. (USCE 1952). FS Date: 5/29/2013	39.575000 ° -121.807808 °	39.575000 ° -121.807808 °	35
DWR ID: DWR_MA0005_01_f_2013_35										
34	9.66	9.66	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7593 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems there should be flap gates on this structure. FIELD_STRUCT_DESC: 3 of 4: 66 Inch Corrugated Metal Pipe through levee, 17.9 feet below the crown. Concrete headwalls on both ends. (USCE 1952). FS Date: 10/30/2012	39.575000 ° -121.807808 °	39.575000 ° -121.807808 °	36
DWR ID: DWR_MA0005_01_f_2013_36										
35	9.66	9.66	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14426 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems there should be flap gates on this structure.5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch. FIELD_STRUCT_DESC: 4 of 4: 66 Inch Corrugated Metal Pipe through levee, 17.9 feet below the crown. Concrete headwalls on both ends. (USCE 1952). FS Date: 5/29/2013	39.574964 ° -121.807810 °	39.574964 ° -121.807810 °	37
DWR ID: DWR_MA0005_01_f_2013_37										
36	9.66	9.66	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7594 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems there should be flap gates on this structure. FIELD_STRUCT_DESC: 4 of 4: 66 Inch Corrugated Metal Pipe through levee, 17.9 feet below the crown. Concrete headwalls on both ends. (USCE 1952). FS Date: 10/30/2012	39.574964 ° -121.807810 °	39.574964 ° -121.807810 °	38
DWR ID: DWR_MA0005_01_f_2013_38										
37	9.66	10.48	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.574837 ° -121.807913 °	39.567892 ° -121.819283 °	5 Y
DWR ID: DWR_MA0005_01_s_2012_5										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	

38	10.19	10.19	Supplemental	DWR UCIP Field Study	LS En	M	Inspector Comments: FS_ID:7640 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to locate slide gate or pipe on WS. Pipe appears to be abandoned. Good candidate for video inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 12.5 feet below the crown. Slide gate on the waterward end. Flap gate and headwall on the landward end. Concrete headwall at the waterward toe. (USCE 1952) FS Date: 10/30/2012 7:45:00 AM	39.570596 ° -121.815215 °	39.570596 ° -121.815215 °	39
DWR ID: DWR_MA0005_01_f_2013_39										

39	10.19	10.19	Supplemental	DWR UCIP Field Study	LS En	M	Inspector Comments: FS_ID:14086 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe and headwall buried on WS, no access to slide gate. 5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 12.5 feet below the crown. Slide gate on the waterward end. Flap gate and headwall on the landward end. Concrete headwall at the waterward toe. (USCE 1952) FS Date: 5/29/2013 2:22:01 PM	39.570596 ° -121.815215 °	39.570596 ° -121.815215 °	40 Y
DWR ID: DWR_MA0005_01_f_2013_40										

40	10.19	10.19	Supplemental	DWR UCIP Field Study	LS En	M	Inspector Comments: FS_ID:7644 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe and headwall buried on WS, no access to slide gate. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 12.5 feet below the crown. Slide gate on the waterward end. Flap gate and headwall on the landward end. Concrete headwall at the waterward toe. (USCE 1952) FS Date: 10/30/2012 7:45:00 AM	39.570596 ° -121.815215 °	39.570596 ° -121.815215 °	41
DWR ID: DWR_MA0005_01_f_2013_41										

41	10.99	10.99	Supplemental	DWR UCIP Field Study	LS En	M	Inspector Comments: FS_ID:14088 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe buried on both sides of levee. 5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee, 12.2 feet below the crown. Flap gate on the waterward end. (USCE 1952) FS Date: 5/29/2013 2:23:13 PM	39.562559 ° -121.825808 °	39.562559 ° -121.825808 °	42 Y
DWR ID: DWR_MA0005_01_f_2013_42										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
42	10.99	10.99	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7646 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe buried on both sides of levee. FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee, 12.2 feet below the crown. Flap gate on the waterward end. (USCE 1952) FS Date: 10/30/2012	39.562559 ° -121.825808 °	39.562559 ° -121.825808 °	43
DWR ID: DWR_MA0005_01_f_2013_43										
43	10.99	10.99	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7645 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe buried on both sides of levee. FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee, 12.2 feet below the crown. Flap gate on the waterward end. (USCE 1952) FS Date: 10/30/2012	39.562518 ° -121.825831 °	39.562518 ° -121.825831 °	44
DWR ID: DWR_MA0005_01_f_2013_44										
44	10.99	10.99	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7642 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe buried on both sides of levee. FIELD_STRUCT_DESC: 30-inch pipe through the levee, 12.2 feet below the crown. Flap gate on the waterward end. (USCE 1952) FS Date: 10/30/2012	39.562518 ° -121.825831 °	39.562518 ° -121.825831 °	45
DWR ID: DWR_MA0005_01_f_2013_45										
45	11.01	11.01	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	39.562325 ° -121.826089 °	39.562325 ° -121.826089 °	54 Y
DWR ID: DWR_MA0005_01_f_2013_54										
46	11.96	11.96	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:14097 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe is totally corroded through on WS toe and flap gate is missing. Pipe likely requires total replacement. 5/29/2013 Pipe was video inspected and it was determined it needs full replacement. Replacement construction is scheduled to begin in the week of 6/3/2013. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 15.0 feet below the crown. Flap gate on the waterward end. Concrete headwall at the landward toe. (USACE 1952) FS Date: 5/29/2013 2:28:18 PM	39.551757 ° -121.837252 °	39.551757 ° -121.837252 °	46
DWR ID: DWR_MA0005_01_f_2013_46										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
47	11.96	11.96	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:7659 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe is totally corroded through on WS toe and flap gate is missing. Pipe likely requires total replacement. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 15.0 feet below the crown. Flap gate on the waterward end. Concrete headwall at the landward toe. (USACE 1952) FS Date: 10/31/2012	39.551757 ° -121.837252 °	39.551757 ° -121.837252 °	47 Y
DWR ID: DWR_MA0005_01_f_2013_47										
48	11.96	11.96	Earthen Levee	Encroachments	LS	A En	PI : Pipe Inspector Comments: Sutter Yard replaced the old pipe with a new 24 inch HDPE pipe.	39.551747 ° -121.837288 °	39.551747 ° -121.837288 °	56 Y
DWR ID: DWR_MA0005_01_f_2013_56										
49	12.00	12.00	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14098 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Pipe buried on both LS and WS. 5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 48" Corrugated Metal Pipe riser and sparring water meter/irrigation structure. 4-foot by 6-foot concrete outlet box on LS toe.(USACE 1952) FS Date: 5/29/2013 2:30:39 PM	39.551212 ° -121.837724 °	39.551212 ° -121.837724 °	48
DWR ID: DWR_MA0005_01_f_2013_48										
50	12.00	12.00	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7673 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Pipe buried on both LS and WS. FIELD_STRUCT_DESC: 48" Corrugated Metal Pipe riser and sparring water meter/irrigation structure. 4-foot by 6-foot concrete outlet box on LS toe.(USACE 1952) FS Date: 10/31/2012	39.551212 ° -121.837724 °	39.551212 ° -121.837724 °	49
DWR ID: DWR_MA0005_01_f_2013_49										
51	12.00	12.00	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7660 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Pipe buried on both LS and WS. FIELD_STRUCT_DESC: 48" Corrugated Metal Pipe riser and sparring water meter/irrigation structure. 4-foot by 6-foot concrete outlet box on LS toe.(USACE 1952) FS Date: 10/31/2012	39.551212 ° -121.837724 °	39.551212 ° -121.837724 °	50 Y
DWR ID: DWR_MA0005_01_f_2013_50										
52	12.00	13.83	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.551235 ° -121.837697 °	39.531462 ° -121.856165 °	6 Y
DWR ID: DWR_MA0005_01_s_2012_6										

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	

53	14.66	14.66	Supplemental	DWR UCIP Field Study	LS	M	Inspector Comments: FS_ID:14101 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Soil under Concrete wing walls on WS toe has been eroded. No soil supporting wing walls. 5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 13.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USCE 1952) FS Date: 5/29/2013 2:32:14 PM	39.522200 ° -121.865592 °	39.522200 ° -121.865592 °	51 Y
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DWR ID: DWR_MA0005_01_f_2013_51

54	14.66	14.66	Supplemental	DWR UCIP Field Study	LS	M	Inspector Comments: FS_ID:7666 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Soil under Concrete wing walls on WS toe has been eroded. No soil supporting wing walls. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 13.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USCE 1952) FS Date: 10/31/2012	39.522200 ° -121.865592 °	39.522200 ° -121.865592 °	52
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DWR ID: DWR_MA0005_01_f_2013_52

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	0.58
End Levee Mile	0.58
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the large elderberries along the L/S toe.

rduffey_f_20130919_772.jpg



Levee Mile Report Line	5
Start Levee Mile	1.62
End Levee Mile	1.62
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of the unauthorized vehicle ramp on the landside slope.

rduffey_f_20130919_770.JPG



Levee Mile Report Line	6
Start Levee Mile	1.68
End Levee Mile	1.68
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the removed garbage but construction supply on pallets.

rduffey_f_20130919_763.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	7
Start Levee Mile	2.13
End Levee Mile	2.13
Location	Crown
Category	Earthen Levee
Item	Repair Gates

View of the gate with no permit.

rduffey_f_20131126_203.JPG



Levee Mile Report Line	8
Start Levee Mile	2.58
End Levee Mile	2.58
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of the vehicle erosion along the landside slope.

rduffey_f_20130919_767.JPG



Levee Mile Report Line	9
Start Levee Mile	2.86
End Levee Mile	2.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the large prunings pile along the L/S toe.

rduffey_f_20130919_764.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	11
Start Levee Mile	3.54
End Levee Mile	3.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the prunings along the landside slope.

rduffey_f_20130919_771.JPG



Levee Mile Report Line	12
Start Levee Mile	3.67
End Levee Mile	3.67
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

CMP riser with slide gate on WS shoulder.
Notice bent screw in open position.

UCIP_7522.jpg



Levee Mile Report Line	14
Start Levee Mile	3.91
End Levee Mile	3.91
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the rodent activity along the landside slope.

rduffey_f_20130919_768.JPG



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	16
Start Levee Mile	3.97
End Levee Mile	3.97
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

PG&E access lid on south edge of roadway.

UCIP_7525.jpg



Levee Mile Report Line	18
Start Levee Mile	5.65
End Levee Mile	5.65
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

54-inch CMP riser and slide gate on WS shoulder.

UCIP_7526.jpg



Levee Mile Report Line	19
Start Levee Mile	5.65
End Levee Mile	5.65
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Slide gate at bottom of cmp riser.

UCIP_7528.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	22
Start Levee Mile	5.79
End Levee Mile	6.34
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the irrigation ditch along the landside toe.

rduffey_f_20131126_199.JPG



Levee Mile Report Line	24
Start Levee Mile	7.70
End Levee Mile	7.70
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Headwall at LS toe.

UCIP_7531.jpg



Levee Mile Report Line	25
Start Levee Mile	8.33
End Levee Mile	8.33
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Outlet at WS toe.

UCIP_7535.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	27
Start Levee Mile	9.21
End Levee Mile	9.21
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Concrete distribution box at LS toe.

UCIP_7538.jpg



Levee Mile Report Line	30
Start Levee Mile	9.65
End Levee Mile	9.65
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

WS of pipe crossing

UCIP_7662.jpg



Levee Mile Report Line	37
Start Levee Mile	9.66
End Levee Mile	10.48
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the L/S toe.

rduffey_f_20130919_765.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	39
Start Levee Mile	10.19
End Levee Mile	10.19
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Flap gate and headwall at LS toe in irrigation or drainage ditch.

UCIP_7540.jpg



Levee Mile Report Line	41
Start Levee Mile	10.99
End Levee Mile	10.99
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Concrete headwall at LS toe.

UCIP_7542.jpg



Levee Mile Report Line	45
Start Levee Mile	11.01
End Levee Mile	11.01
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the both slopes that has been burned and dragged.

rduffey_f_20131126_198.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	47
Start Levee Mile	11.96
End Levee Mile	11.96
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Drainage canal on LS toe.

UCIP_3343.jpg



Levee Mile Report Line	48
Start Levee Mile	11.96
End Levee Mile	11.96
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the new 24 inch pipe and riser.

rduffey_f_20131126_197.JPG



Levee Mile Report Line	51
Start Levee Mile	12.00
End Levee Mile	12.00
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Buried pipe at concrete box, LS toe.

UCIP_3348.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	52
Start Levee Mile	12.00
End Levee Mile	13.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the L/S toe.

rduffey_f_20130919_766.jpg



Levee Mile Report Line	53
Start Levee Mile	14.66
End Levee Mile	14.66
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Headwall at inlet on LS toe.

UCIP_7558.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway			Bank	Unit Miles
Unit No. 02 Butte Creek 1			Right	16.53
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/23/2013 - 04/23/2013		11/20/2013 - 11/20/2013	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Jason Cooper Sutter Maintenance Yard		Jason Cooper Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	1.23	1.62	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.529933 ° -121.861563 °	39.534102 ° -121.856947 °	1 Y
DWR ID: DWR_MA0005_02_s_2012_1										
2	1.45	1.45	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:7867 EP_NO: 16381 Repair Type: Urgent Crossing Status: Not Found UCIP Comments: Gasline not marked. Notes in permit indicate installation occurred. Owner needs to install markers. FIELD_STRUCT_DESC: 1 of 2: 2" gas main. (Permit No. 16381) FS Date: 11/2/2012	39.732942 ° -121.772445 °	39.732942 ° -121.772445 °	23
DWR ID: DWR_MA0005_02_f_2013_23										
3	1.45	1.45	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:14744 EP_NO: 16381 Repair Type: Urgent Crossing Status: Not Found UCIP Comments: Gasline not marked. Notes in permit indicate installation occurred. Owner needs to install markers.6/6/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 1 of 2: 2" gas main. (Permit No. 16381) FS Date: 6/6/2013	39.732942 ° -121.772445 °	39.732942 ° -121.772445 °	24
DWR ID: DWR_MA0005_02_f_2013_24										
4	1.89	1.89	Earthen Levee	Encroachments	LS	M Ma	GA : Garbage	39.536923 ° -121.853638 °	39.536923 ° -121.853638 °	4 Y
DWR ID: DWR_MA0005_02_s_2012_4										
5	1.94	1.94	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14758 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Vegetation needs to be cleared from outlet.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 17.0 feet below the crown. Flap gate on the waterward end. Slide gate on LS toe. Concrete headwall at both toes. FS Date: 6/6/2013	39.537455 ° -121.853061 °	39.537455 ° -121.853061 °	27
DWR ID: DWR_MA0005_02_f_2013_27										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Butte Creek 1				Right	16.53	11/20/2013 11/20/2013	Bob Duffey	

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
6	1.94	1.94	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7695 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Vegetation needs to be cleared from outlet. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 17.0 feet below the crown. Flap gate on the waterward end. Slide gate on LS toe. Concrete headwall at both toes. FS Date: 10/31/2012	39.537455 ° -121.853061 °	39.537455 ° -121.853061 °	28 Y
DWR ID: DWR_MA0005_02_f_2013_28										
7	2.50	2.51	Supplemental	USACE Erosion Survey	WSA/W	Ma	Inspector Comments: 2008 - Sandy non-cohesive bank with rotational/slab failure. 2012: Site removed from the inventory, the erosion is not in projection of levee slope. [2012 Site ID: BTC_2-5_R]	39.544374 ° -121.846366 °	39.544028 ° -121.846595 °	8 Y
DWR ID:										
8	2.92	2.92	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:14759 EP_NO: 3927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump does not appear to be in use or is abandoned. 6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 20-inch steel pipe through the levee, 2.4 feet below the crown. Siphon breaker in 24-inch corrugated metal riser on the landward shoulder. Portable pump on the waterward side. (Permit No. 3927) FS Date: 6/6/2013	39.549014 ° -121.842866 °	39.549014 ° -121.842866 °	29
DWR ID: DWR_MA0005_02_f_2013_29										
9	2.92	2.92	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:7699 EP_NO: 3927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump does not appear to be in use or is abandoned. FIELD_STRUCT_DESC: 20-inch steel pipe through the levee, 2.4 feet below the crown. Siphon breaker in 24-inch corrugated metal riser on the landward shoulder. Portable pump on the waterward side. (Permit No. 3927) FS Date: 10/31/2012	39.549014 ° -121.842866 °	39.549014 ° -121.842866 °	30 Y
DWR ID: DWR_MA0005_02_f_2013_30										
10	3.15	4.60	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.551780 ° -121.840507 °	39.567430 ° -121.823065 °	7 Y
DWR ID: DWR_MA0005_02_s_2012_7										

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
11	4.16	4.16	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14772 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe open on WS and is not filled with concrete.6/6/2013 Sutter Maintenance Yard supervisor Jason Cooper said there is a flap gate on the LS end of the pipe in the western most ditch to prevent high water flooding. Not sure if this is adequate, will talk to levee inspector to find out. FIELD_STRUCT_DESC: 5 of 5: Abandoned in place. 60-inch pipes through the levee, 16.6 feet below the crown. Slide gates on the waterward ends. Wooden walkway on the waterward slope. (USACE 1955) FS Date: 6/10/2013 8:44:24 AM	39.562875 ° -121.828782 °	39.562875 ° -121.828782 °	31
DWR ID: DWR_MA0005_02_f_2013_31										
12	4.16	4.16	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14783 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe open on WS and is not filled with concrete.6/6/2013 Sutter Maintenance Yard supervisor Jason Cooper said there is a flap gate on the LS end of the pipe in the western most ditch to prevent high water flooding. Not sure if this is adequate, will talk to levee inspector to find out. FIELD_STRUCT_DESC: 5 of 5: Abandoned in place. 60-inch pipes through the levee, 16.6 feet below the crown. Slide gates on the waterward ends. Wooden walkway on the waterward slope. (USACE 1955) FS Date: 6/6/2013	39.562875 ° -121.828782 °	39.562875 ° -121.828782 °	32 Y
DWR ID: DWR_MA0005_02_f_2013_32										
13	4.16	4.16	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7728 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe open on WS and is not filled with concrete. FIELD_STRUCT_DESC: 5 of 5: Abandoned in place. 60-inch pipes through the levee, 16.6 feet below the crown. Slide gates on the waterward ends. Wooden walkway on the waterward slope. (USACE 1955) FS Date: 11/1/2012	39.562875 ° -121.828782 °	39.562875 ° -121.828782 °	33
DWR ID: DWR_MA0005_02_f_2013_33										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
14	5.43	5.43	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14789 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned. Unable to locate outfall on WS. Unable to locate inlet on LS.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 12.5 feet below the crown. Slide gate and flap gate in 56-inch cmp riser on WS berm. Flap gate on the waterward end. (USACE 1955) FS Date: 6/6/2013	39.576008 ° -121.812599 °	39.576008 ° -121.812599 °	34 Y
DWR ID: DWR_MA0005_02_f_2013_34										
15	5.43	5.43	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7738 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned. Unable to locate outfall or flap gate on WS. Unable to locate inlet on LS. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 12.5 feet below the crown. Slide gate in 48-inch cmp riser on WS berm. Flap gate on the waterward end. (USACE 1955) FS Date: 11/1/2012	39.576008 ° -121.812599 °	39.576008 ° -121.812599 °	35
DWR ID: DWR_MA0005_02_f_2013_35										
16	5.43	5.43	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7739 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned. Unable to locate outfall on WS. Unable to locate inlet on LS. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 12.5 feet below the crown. Slide gate and flap gate in 56-inch cmp riser on WS berm. Flap gate on the waterward end. (USACE 1955) FS Date: 11/1/2012	39.576008 ° -121.812599 °	39.576008 ° -121.812599 °	36
DWR ID: DWR_MA0005_02_f_2013_36										
17	7.38	7.38	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	39.599607 ° -121.793848 °	39.599607 ° -121.793848 °	11 Y
DWR ID: DWR_MA0005_02_s_2012_11										
18	7.86	7.86	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	39.605265 ° -121.788388 °	39.605265 ° -121.788388 °	2 Y
DWR ID: DWR_MA0005_02_s_2012_2										
19	8.10	8.10	Earthen Levee	Slope Stability	LS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.607710 ° -121.785868 °	39.607710 ° -121.785868 °	13 Y
DWR ID: DWR_MA0005_02_s_2012_13										

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

20	8.12	8.12	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14801 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe 3/4 full with soil on LS.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 6.7 feet below the crown. Concrete headwall at the landward toe. Flap gate on the waterward end. (USACE 1955) FS Date: 6/6/2013	39.607802 ° -121.785597 °	39.607802 ° -121.785597 °	37 Y
DWR ID: DWR_MA0005_02_f_2013_37										
21	8.12	8.12	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7752 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe 3/4 full with soil on LS. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 6.7 feet below the crown. Concrete headwall at the landward toe. Flap gate on the waterward end. (USACE 1955) FS Date: 11/1/2012	39.607802 ° -121.785597 °	39.607802 ° -121.785597 °	38 Y
DWR ID: DWR_MA0005_02_f_2013_38										
22	8.45	8.45	Earthen Levee	Encroachments	LS	M En	PR : Prunings	39.612212 ° -121.782922 °	39.612212 ° -121.782922 °	15 Y
DWR ID: DWR_MA0005_02_s_2012_15										
23	8.80	8.80	Earthen Levee	Encroachments	LS	M En	PR : Prunings	39.616353 ° -121.779808 °	39.616353 ° -121.779808 °	17 Y
DWR ID: DWR_MA0005_02_s_2012_17										
24	8.91	8.91	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:14809 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe rusted through along bottom at WS outlet. Sink hole over pipe on WS berm. WS headwall eroded eternally around backside of headwall.6/6/2013 Same as last inspection. Plans have been made to repair during summer of 2013 before high water season. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 15.0 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. (USACE 1957) FS Date: 6/6/2013	39.617747 ° -121.778964 °	39.617747 ° -121.778964 °	39 Y
DWR ID: DWR_MA0005_02_f_2013_39										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
25	8.91	8.91	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:7769 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe rusted through along bottom at WS outlet. Sink hole over pipe on WS berm. WS headwall eroded eternally around backside of headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 15.0 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. (USACE 1957) FS Date: 11/1/2012	39.617747 ° -121.778964 °	39.617747 ° -121.778964 °	40
DWR ID: DWR_MA0005_02_f_2013_40										
26	8.91	8.91	Earthen Levee	Encroachments	LS	M En	PR : Prunings	39.617785 ° -121.778969 °	39.617785 ° -121.778969 °	12 Y
DWR ID: DWR_MA0005_02_s_2013_12										
27	8.94	8.94	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14810 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: LS inlet is buried under soil and covered with brambles. Slide gate missing from LS.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch pipe through the levee, 12.0 feet below the crown. Flap gate on waterward end. Concrete headwall on the waterward end. (USACE 1957) FS Date: 6/6/2013	39.618163 ° -121.778745 °	39.618163 ° -121.778745 °	41
DWR ID: DWR_MA0005_02_f_2013_41										
28	8.94	8.94	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7770 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: LS inlet is buried under soil and covered with brambles. Slide gate missing from LS. FIELD_STRUCT_DESC: 24-inch pipe through the levee, 12.0 feet below the crown. Flap gate on waterward end. Concrete headwall on the waterward end. (USACE 1957) FS Date: 11/1/2012	39.618163 ° -121.778745 °	39.618163 ° -121.778745 °	42 Y
DWR ID: DWR_MA0005_02_f_2013_42										
29	8.99	8.99	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	39.618857 ° -121.778357 °	39.618857 ° -121.778357 °	69 Y
DWR ID: DWR_MA0005_02_f_2013_69										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
30	9.59	9.59	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7820 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe 1/2 filled with soil. FIELD_STRUCT_DESC: 24-inch corrugated metal storm drain pipe through the levee, 11.2 feet below the crown. Flap gate on waterward end. Concrete "U" shaped headwalls on both ends. (USCE 1957) FS Date: 11/1/2012 7:45:43 AM	39.626894 ° -121.775180 °	39.626894 ° -121.775180 °	43 Y
DWR ID: DWR_MA0005_02_f_2013_43										
31	9.59	9.59	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7826 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe 1/2 filled with soil. FIELD_STRUCT_DESC: 24-inch corrugated metal storm drain pipe through the levee, 11.2 feet below the crown. Flap gate on waterward end. Concrete "U" shaped headwalls on both ends. (USCE 1957) FS Date: 11/1/2012 7:45:00 AM	39.626894 ° -121.775180 °	39.626894 ° -121.775180 °	44 Y
DWR ID: DWR_MA0005_02_f_2013_44										
32	9.59	9.59	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14812 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe 1/2 filled with soil.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal storm drain pipe through the levee, 11.2 feet below the crown. Flap gate on waterward end. Concrete "U" shaped headwalls on both ends. (USCE 1957) FS Date: 6/6/2013	39.626894 ° -121.775180 °	39.626894 ° -121.775180 °	45 Y
DWR ID: DWR_MA0005_02_f_2013_45										
33	10.54	10.54	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	39.639018 ° -121.781458 °	39.639018 ° -121.781458 °	3 Y
DWR ID: DWR_MA0005_02_s_2012_3										
34	10.61	10.61	Earthen Levee	Encroachments	LS	M En	EQ : Equipment	39.639967 ° -121.782152 °	39.639967 ° -121.782152 °	14 Y
DWR ID: DWR_MA0005_02_s_2012_14										
35	10.79	10.79	Earthen Levee	Slope Stability	LS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.642061 ° -121.783861 °	39.642061 ° -121.783861 °	18 Y
DWR ID: DWR_MA0005_02_s_2012_18										
36	10.95	10.99	Earthen Levee	Encroachments	LS	M En	TR : Tree or limb	39.644076 ° -121.785471 °	39.644480 ° -121.785762 °	21 Y
DWR ID: DWR_MA0005_02_s_2013_21										
37	11.22	11.22	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	39.647400 ° -121.787825 °	39.647400 ° -121.787825 °	26 Y
DWR ID: DWR_MA0005_02_f_2012_26										

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	

38	11.29	11.29	Supplemental	DWR UCIP Field Study	LS U En	Inspector Comments: FS_ID:7832 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: No slide gate in either CM riser on waterward slope or distribution box on LS toe. Pipe open through levee. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 9.7 feet below the crown. Slide gate in corrugated metal riser on the waterward slope. Slide gate in concrete distribution box on the landward side. (USCE 1958) FS Date: 11/1/2012	39.648169 ° -121.788541 °	39.648169 ° -121.788541 °	46
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DWR ID: DWR_MA0005_02_f_2013_46

39	11.29	11.29	Supplemental	DWR UCIP Field Study	LS U En	Inspector Comments: FS_ID:7825 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: No slide gate in either CM riser on waterward slope or distribution box on LS toe. Pipe open through levee. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 9.7 feet below the crown. Slide gate in corrugated metal riser on the waterward slope. Slide gate in concrete distribution box on the landward side. (USCE 1958) FS Date: 11/1/2012	39.648169 ° -121.788541 °	39.648169 ° -121.788541 °	47
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DWR ID: DWR_MA0005_02_f_2013_47

40	11.29	11.29	Supplemental	DWR UCIP Field Study	LS M En	Inspector Comments: FS_ID:7827 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned. It needs to be abandoned properly. FIELD_STRUCT_DESC: 30-inch corrugated metal siphon through the levee, 9.4 feet below the crown. Slide gate in 42-inch corrugated metal riser on the waterward slope. Concrete distribution box on the landward side. (USCE 1958) FS Date: 11/1/2012	39.648185 ° -121.788563 °	39.648185 ° -121.788563 °	48
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DWR ID: DWR_MA0005_02_f_2013_48

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
41	11.29	11.29	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14817 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned. It needs to be abandoned properly.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal siphon through the levee, 9.4 feet below the crown. Slide gate in 42-inch corrugated metal riser on the waterward slope. Concrete distribution box on the landward side. (USCE 1958) FS Date: 6/6/2013	39.648185 ° -121.788563 °	39.648185 ° -121.788563 °	49
DWR ID: DWR_MA0005_02_f_2013_49										
42	11.74	11.95	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.654268 ° -121.789525 °	39.657142 ° -121.788690 °	6 Y
DWR ID: DWR_MA0005_02_s_2012_6										
43	11.94	11.94	Earthen Levee	Encroachments	LS	M En	PR : Prunings	39.657050 ° -121.788717 °	39.657050 ° -121.788717 °	16 Y
DWR ID: DWR_MA0005_02_f_2013_16										
44	12.25	12.25	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14818 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe appears to be abandoned.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch siphon pipe through the levee, 12.3 feet below the crown. Slide gate in 42-inch corrugated metal riser on the waterward slope. 5-foot X 5-foot Concrete distribution box at LS toe. (USCAE 1958) FS Date: 6/6/2013	39.660980 ° -121.786341 °	39.660980 ° -121.786341 °	50
DWR ID: DWR_MA0005_02_f_2013_50										
45	12.25	12.25	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7828 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe appears to be abandoned. FIELD_STRUCT_DESC: 30-inch siphon pipe through the levee, 12.3 feet below the crown. Slide gate in 42-inch corrugated metal riser on the waterward slope. 5-foot X 5-foot Concrete distribution box at LS toe. (USCAE 1958) FS Date: 11/1/2012	39.660980 ° -121.786341 °	39.660980 ° -121.786341 °	51 Y
DWR ID: DWR_MA0005_02_f_2013_51										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
46	12.99	12.99	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:14819 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Slide gate on WS shoulder bent and damaged (inoperable) Pipe appears abandoned.6/6/2013 New slidegate is planned to be installed during summer of 2013. FIELD_STRUCT_DESC: 24-inch pipe through the levee, 14.0 feet below the crown. Slide gate in corrugated metal riser on the waterward slope. (USCE 1958) FS Date: 6/6/2013	39.670982 ° -121.783103 °	39.670982 ° -121.783103 °	52
DWR ID: DWR_MA0005_02_f_2013_52									
47	12.99	12.99	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:7829 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Slide gate on WS shoulder bent and damaged (inoperable) Pipe appears abandoned. FIELD_STRUCT_DESC: 24-inch pipe through the levee, 14.0 feet below the crown. Slide gate in corrugated metal riser on the waterward slope. (USCE 1958) FS Date: 11/1/2012	39.670982 ° -121.783103 °	39.670982 ° -121.783103 °	53 Y
DWR ID: DWR_MA0005_02_f_2013_53									
48	13.03	13.03	Earthen Levee	Encroachments	LS M En	PR : Prunings	39.671239 ° -121.782486 °	39.671239 ° -121.782486 °	19 Y
DWR ID: DWR_MA0005_02_s_2012_19									
49	13.23	13.23	Earthen Levee	Encroachments	LS M Ma	EQ : Equipment	39.673956 ° -121.781278 °	39.673956 ° -121.781278 °	5
DWR ID: DWR_MA0005_02_s_2012_5									
50	13.35	13.35	Earthen Levee	Encroachments	WS M En	PR : Prunings	39.675311 ° -121.780371 °	39.675311 ° -121.780371 °	22 Y
DWR ID: DWR_MA0005_02_s_2013_22									
51	13.35	13.35	Supplemental	DWR UCIP Field Study	WS M En	Inspector Comments: FS_ID:14820 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned. No pump found. Pipe should be abandoned properly.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch pipe through the levee, 9.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Pump and 36-inch concrete standpipe on the waterward berm. (USCE 1958) FS Date: 6/6/2013	39.675379 ° -121.780319 °	39.675379 ° -121.780319 °	54 Y
DWR ID: DWR_MA0005_02_f_2013_54									

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Maintenance Area 0005

DWR ID: DWR_MA0005_02_f_2013_58Page 11 of 27

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

57	13.99	13.99	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14830 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned.6/6/2013 Boiler has been removed and pipe buried on LS. Unable to locate. FIELD_STRUCT_DESC: 8-inch steel pipe through levee, 6.5 feet below crown. Boiler attached to LS end of pipe. (USACE 1958) FS Date: 6/6/2013	39.683896 ° -121.778183 °	39.683896 ° -121.778183 °	59 Y
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DWR ID: DWR_MA0005_02_f_2013_59

58	14.15	14.15	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7851 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned. FIELD_STRUCT_DESC: 6-inch steel pipe through levee, 7.1 feet below crown. Siphon breaker in corrugated metal riser on landward slope. One corrugated metal cutoff wall. Pipe is open on both ends. (USCE 1958) FS Date: 11/2/2012	39.685961 ° -121.779041 °	39.685961 ° -121.779041 °	60 Y
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DWR ID: DWR_MA0005_02_f_2013_60

59	14.15	14.15	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14831 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 6-inch steel pipe through levee, 7.1 feet below crown. Siphon breaker in corrugated metal riser on landward slope. One corrugated metal cutoff wall. Pipe is open on both ends. (USCE 1958) FS Date: 6/6/2013	39.685961 ° -121.779041 °	39.685961 ° -121.779041 °	61 Y
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DWR ID: DWR_MA0005_02_f_2013_61

60	14.54	14.54	Earthen Levee	Encroachments	LS	U En	BU : Building	39.691432 ° -121.778933 °	39.691432 ° -121.778933 °	25 Y
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DWR ID: DWR_MA0005_02_s_2012_25

61	14.82	14.82	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7860 EP_NO: 14519 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe outlet buried and flap gate will not function. FIELD_STRUCT_DESC: 24-inch Soil proofed steel storm drain pipeline through the levee 12-feet below the crown. Concrete headwall on LS toe, 4'X4' concrete box with slide gate on WS shoulder. Outlet with flap gate near stream 275-feet south east of concrete box on WS shoulder. (Permit No. 14519.) FS Date: 11/2/2012	39.695204 ° -121.778557 °	39.695204 ° -121.778557 °	62 Y
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DWR ID: DWR_MA0005_02_f_2013_62

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	

62	14.82	14.82	Supplemental	DWR UCIP Field Study	LS M En	Inspector Comments: FS_ID:14835 EP_NO: 14519 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe outlet buried and flap gate will not function.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch Soil proofed steel storm drain pipeline through the levee 12-feet below the crown. Concrete headwall on LS toe, 4'X4' concrete box with slide gate on WS shoulder. Outlet with flap gate near stream 275-feet south east of concrete box on WS shoulder. (Permit No. 14519.) FS Date: 6/6/2013	39.695204 ° -121.778557 °	39.695204 ° -121.778557 °	63
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DWR ID: DWR_MA0005_02_f_2013_63

63	15.71	15.71	Supplemental	DWR UCIP Field Study	LS M En	Inspector Comments: FS_ID:7863 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Good candidate for video inspection. FIELD_STRUCT_DESC: 1 of 2: 54-inch siphon pipe through the levee, 17.8 feet below crown. Slide gate in 66-inch CMP riser on waterward side. Concrete headwall and irrigation ditch at the landward toe. Large structure in floodway likely related. (USCE 1958) FS Date: 11/2/2012	39.707544 ° -121.777701 °	39.707544 ° -121.777701 °	64
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DWR ID: DWR_MA0005_02_f_2013_64

64	15.71	15.71	Supplemental	DWR UCIP Field Study	LS M En	Inspector Comments: FS_ID:14838 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Good candidate for video inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: 54-inch siphon pipe through the levee, 17.8 feet below crown. Slide gate in 66-inch CMP riser on waterward side. Concrete headwall and irrigation ditch at the landward toe. Large structure in floodway likely related. (USCE 1958) FS Date: 6/6/2013	39.707544 ° -121.777701 °	39.707544 ° -121.777701 °	65
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DWR ID: DWR_MA0005_02_f_2013_65

65	15.71	15.71	Supplemental	DWR UCIP Field Study	LS M En	Inspector Comments: FS_ID:14839 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Good candidate for video inspection.6/6/2013 Same as last inspection. Need to construct covers for top of standpipe. FIELD_STRUCT_DESC: 1 of 2: 54-inch siphon pipe through the levee, 17.8 feet below crown. Slide gate in 66-inch CMP riser on waterward side. Concrete headwall and irrigation ditch at the landward toe. Large structure in floodway likely related. (USCE 1958) FS Date: 6/6/2013	39.707544 ° -121.777701 °	39.707544 ° -121.777701 °	66
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DWR ID: DWR_MA0005_02_f_2013_66

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

66	15.71	15.71	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:14840 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Good candidate for video inspection.6/6/2013 Same as last inspection. Need to construct cover for top of standpipe. FIELD_STRUCT_DESC: 2 of 2: 54-inch siphon pipe through the levee, 17.8 feet below crown. Slide gate in 66-inch CMP riser on waterward side shoulder. Concrete headwall and irrigation ditch at the landward toe. Large structure in floodway likely related. (USCE 1958) FS Date: 6/6/2013	39.707569 ° -121.777705 °	39.707569 ° -121.777705 °	67
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DWR ID: DWR_MA0005_02_f_2013_67

67	15.71	15.71	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:7864 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Good candidate for video inspection. FIELD_STRUCT_DESC: 2 of 2: 54-inch siphon pipe through the levee, 17.8 feet below crown. Slide gate in 66-inch CMP riser on waterward side shoulder. Concrete headwall and irrigation ditch at the landward toe. Large structure in floodway likely related. (USCE 1958) FS Date: 11/2/2012	39.707569 ° -121.777705 °	39.707569 ° -121.777705 °	68
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DWR ID: DWR_MA0005_02_f_2013_68

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	1.23
End Levee Mile	1.62
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the L/S toe.

rduffey_f_20130919_773.jpg



Levee Mile Report Line	4
Start Levee Mile	1.89
End Levee Mile	1.89
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the garbage along the L/S toe.

rduffey_f_20130919_776.jpg



Levee Mile Report Line	6
Start Levee Mile	1.94
End Levee Mile	1.94
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Concrete headwall and slide gate on LS toe.

UCIP_3352.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	7
Start Levee Mile	2.50
End Levee Mile	2.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_BTC_2-5_R_1.jpg



Levee Mile Report Line	7
Start Levee Mile	2.50
End Levee Mile	2.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_BTC_2-5_R_2.jpg



Levee Mile Report Line	9
Start Levee Mile	2.92
End Levee Mile	2.92
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Air vent in 24-inch CMP riser on LS shoulder.

UCIP_3354.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	10
Start Levee Mile	3.15
End Levee Mile	4.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the L/S toe.

rduffey_f_20130919_778.jpg



Levee Mile Report Line	12
Start Levee Mile	4.16
End Levee Mile	4.16
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Concrete headwall on WS shoulder.

UCIP_7855.jpg



Levee Mile Report Line	14
Start Levee Mile	5.43
End Levee Mile	5.43
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

56-inch CMP riser on WS berm.

UCIP_7858.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	17
Start Levee Mile	7.38
End Levee Mile	7.38
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the prunings pile along the L/S toe.

rduffey_f_20130919_781.jpg



Levee Mile Report Line	18
Start Levee Mile	7.86
End Levee Mile	7.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the debris and garbage along the landside toe of the levee.

rduffey_f_20130919_774.jpg



Levee Mile Report Line	19
Start Levee Mile	8.10
End Levee Mile	8.10
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of the vehicle erosion along the slope.

rduffey_f_20130919_783.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	20
Start Levee Mile	8.12
End Levee Mile	8.12
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Concrete headwall on LS toe.

UCIP_7860.jpg



Levee Mile Report Line	22
Start Levee Mile	8.45
End Levee Mile	8.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the brush pile at the toe of the levee.

rduffey_f_20130919_785.jpg



Levee Mile Report Line	23
Start Levee Mile	8.80
End Levee Mile	8.80
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the brush pile at the toe of the levee.

rduffey_f_20130919_787.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	24
Start Levee Mile	8.91
End Levee Mile	8.91
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Concrete U-shaped headwall on LS toe.

UCIP_7864.jpg



Levee Mile Report Line	26
Start Levee Mile	8.91
End Levee Mile	8.91
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the prunings along the landside toe.

rduffey_f_20130919_782.JPG



Levee Mile Report Line	28
Start Levee Mile	8.94
End Levee Mile	8.94
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

WS outlet and concrete U shaped headwall.

UCIP_3378.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	29
Start Levee Mile	8.99
End Levee Mile	8.99
Location	Land Side
Category	Earthen Levee
Item	Vegetation
View of both slopes that has been burned and dragged.	
rduffey_f_20131126_200.JPG	



Levee Mile Report Line	30
Start Levee Mile	9.59
End Levee Mile	9.59
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study
View of outlet looking toward WS toe.	
UCIP_3382.jpg	



Levee Mile Report Line	33
Start Levee Mile	10.54
End Levee Mile	10.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of the prunings along the landside toe.	
rduffey_f_20130919_775.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	34
Start Levee Mile	10.61
End Levee Mile	10.61
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the equipment along the L/S toe.

rduffey_f_20130919_784.jpg



Levee Mile Report Line	35
Start Levee Mile	10.79
End Levee Mile	10.79
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of the vehicle erosion along the slope of the levee.

rduffey_f_20130919_788.jpg



Levee Mile Report Line	36
Start Levee Mile	10.95
End Levee Mile	10.99
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the redwood trees planted along the landside toe.

rduffey_f_20130919_790.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	39
Start Levee Mile	11.29
End Levee Mile	11.29
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Distribution box on LS toe. Missing slide gate at pipe entrance.

UCIP_3385.jpg



Levee Mile Report Line	40
Start Levee Mile	11.29
End Levee Mile	11.29
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Pipe at concrete distribution box on LS toe.

UCIP_3394.jpg



Levee Mile Report Line	42
Start Levee Mile	11.74
End Levee Mile	11.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the ditch along the L/S toe.

rduffey_f_20130919_777.jpg



*** Location**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	43
Start Levee Mile	11.94
End Levee Mile	11.94
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the prunings at the toe of the levee.

rduffey_f_20131126_201.JPG



Levee Mile Report Line	45
Start Levee Mile	12.25
End Levee Mile	12.25
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

5X5 concrete distribution box at LS toe.

UCIP_3397.jpg



Levee Mile Report Line	47
Start Levee Mile	12.99
End Levee Mile	12.99
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Broken slide gate in CM riser on WS slope.

UCIP_3401.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	48
Start Levee Mile	13.03
End Levee Mile	13.03
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the brush pile at the toe of the levee.

rduffey_f_20130919_789.jpg



Levee Mile Report Line	50
Start Levee Mile	13.35
End Levee Mile	13.35
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the prunings along the waterside toe.

rduffey_f_20130919_791.JPG



Levee Mile Report Line	51
Start Levee Mile	13.35
End Levee Mile	13.35
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Slide gate in CM riser on WS toe.

UCIP_7886.jpg



*** Location**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	53
Start Levee Mile	13.59
End Levee Mile	13.59
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Slide gate at 4X4 concrete box on LS slope.

UCIP_3409.jpg



Levee Mile Report Line	57
Start Levee Mile	13.99
End Levee Mile	13.99
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Pipe attached at boiler on LS toe.

UCIP_7889.jpg



Levee Mile Report Line	59
Start Levee Mile	14.15
End Levee Mile	14.15
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

CM riser with siphon breaker on LS shoulder.

UCIP_7890.jpg



*** Location**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	61
Start Levee Mile	14.82
End Levee Mile	14.82
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Concrete box and gate on WS shoulder.

UCIP_3414.jpg



Levee Mile Report Line	63
Start Levee Mile	15.71
End Levee Mile	15.71
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

66-inch CMP riser on WS shoulder with slide gate.

UCIP_3419.jpg



* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	N : Not Inspected/Rated	En : Enforcement
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	
	U : Unacceptable	

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway			Bank	Unit Miles
Unit No. 03 Little Chico Creek Diversion 1			Left	1.50
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/23/2013 - 04/23/2013		11/20/2013 - 11/20/2013	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Jason Cooper Sutter Maintenance Yard		Jason Cooper Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion 1						Left	1.50	11/20/2013 11/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.53	0.53	Earthen Levee	Vegetation	LS	A	V1 : Control annual grass and weeds on the levee slopes and easements.	39.724076 ° -121.780837 °	39.724076 ° -121.780837 °	1 Y
DWR ID: DWR_MA0005_03_f_2013_1										

*** Location**

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WS : Water Side
CR : Crown

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A/W : Acceptable but Monitor & Maintain

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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion 1	Left	1.50	11/20/2013 11/20/2013	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.53
End Levee Mile	0.53
Location	Land Side
Category	Earthen Levee
Item	Vegetation
View of both slopes that has been mowed.	
rduffey_f_20131126_202.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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